



## 2010-2011 CanAm Spyder RT

### Installation Instructions



**JUICEBOX<sup>PRO</sup>**  
Premium Fuel Controller

### PARTS LIST

- 1 Juice Box Pro™
- 1 USB Cable
- 1 TopTune CD-ROM
- 1 Installation Guide
- 2 Velcro strip
- 1 Alcohol swab
- 1 Posi-tap

**THE IGNITION MUST BE TURNED OFF BEFORE INSTALLATION!**

DOWNLOAD THE TOPTUNE SOFTWARE AND LATEST MAPS FROM OUR WEBSITE:

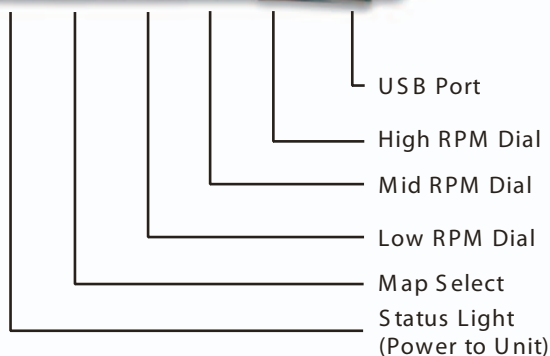
[www.twobros.com](http://www.twobros.com)

**PLEASE READ ALL DIRECTIONS BEFORE STARTING INSTALLATION**

401 S. Grand Ave. Santa Ana, CA 92705  
(800) 211-2767 [www.twobros.com](http://www.twobros.com)

# JUICEBOX<sup>PRO</sup>

Premium Fuel Controller



## Selecting the Map Position

The Juice Box Pro comes loaded with up to ten maps. Using a #1 Phillips screwdriver, turn the map select dial to toggle between the loaded maps. Refer to the map position table below for the maps included in your Juice Box Pro.

## Using the RPM Range Dials

The Low, Mid, and High RPM Dials refer to the RPM range, in thirds, of your vehicle. Each dial allows +/- 10% fuel adjustment on top of what fuel changes are done in the map. With the dial facing straight up, there is no additional fuel change.

For example, if your vehicle revs to 15,000 RPM:

- the low RPM dial will adjust 0-5000 RPM
- the mid RPM dial will adjust 5001-10000 RPM
- the high RPM dial will adjust 10001-15000 RPM

## Using TopTune

Take your tuning to the next level with the TopTune software.

### Installing the TopTune Software

- 1 Insert the CD provided into your computer's cd-rom drive. The launch program will run automatically.  
If auto-run is disabled, double-click the My Computer icon then double-click the CD drive icon. Double-click TBR TopTune.exe to manually start the CD.
- 2 Click Install Software and follow the on-screen instructions to install the Top Tune software. The TopTune software and maps will be stored in C:\Program Files\TBR TopTune.
- 3 Click Map Database. All maps will automatically be installed to the C:\Program Files\TBR TopTune\maps folder.

### Loading Additional Maps

- 1 Connect the USB cable from the computer to the Juice Box Pro. Verify the cable is fully seated in the Juice Box Pro.
- 2 Run the TopTune software by double-clicking the program icon installed on your desktop or on your start menu.
- 3 Click Open Map File and select a map file.
- 4 Click Send Map. You can send the map to any of the ten map positions.

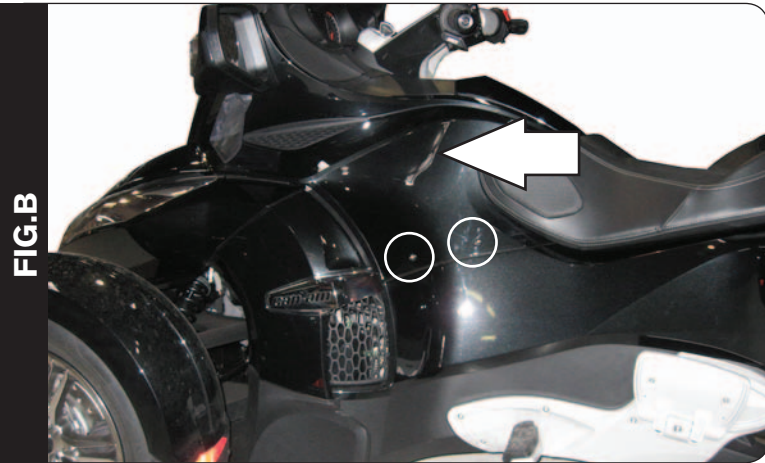
### Altering Maps Using TopTune

The values in the map represent a percentage of fuel change over stock. A value of 10 in the map indicates at that throttle position and RPM range the vehicle will be 10% richer than stock. If the value is -10, then it would be 10% leaner than stock. You have the ability to fine tune your fuel curve by altering these values. The TopTune software allows a value of +250 to -100 in each cell.

Position 0	Zero map	
Position 1	Stock exhaust Stock air filter	2010-2011 CanAm Spyder
Position 2	Two Brothers slip-on Stock air filter	2010-2011 CanAm Spyder

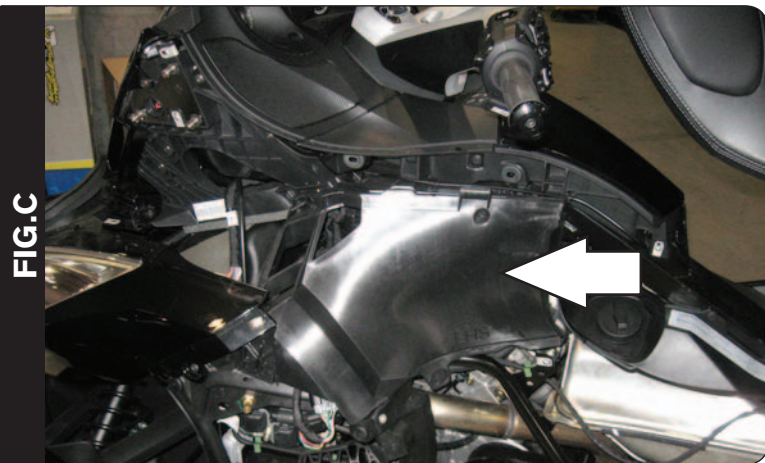


- 1 Open the seat and the front storage compartments.
- 2 Remove the two covers under the front storage lid (Fig. A).  
*Remove the push pins*



- 3 Remove the lower cover in Figure B by pulling outwards.
- 4 Remove the mirror by pulling outwards and up.
- 5 Remove the upper side cover.

*The 2 silver bolts circled in Figure A do NOT need to be removed. Pull outwards in this area.*



- 6 Remove the inner side cover (Fig. C).

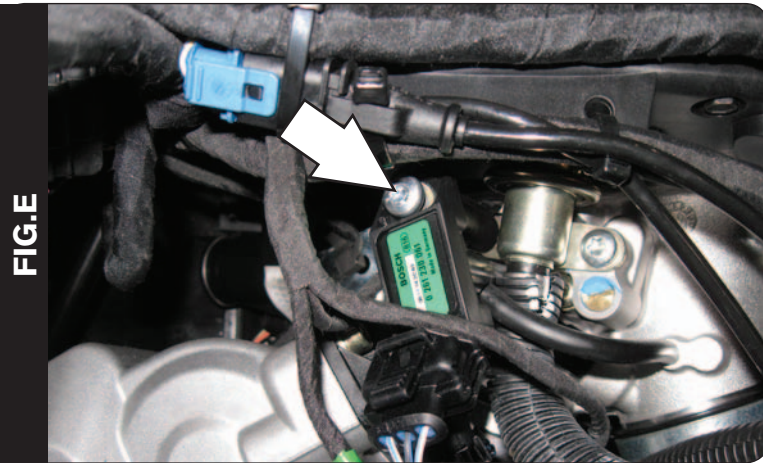
*Figure C is shown with the lower side panel removed. This panel does NOT need to be removed to perform steps 5 & 6.*

- 7 Repeat steps 3 thru 6 for the right hand side.

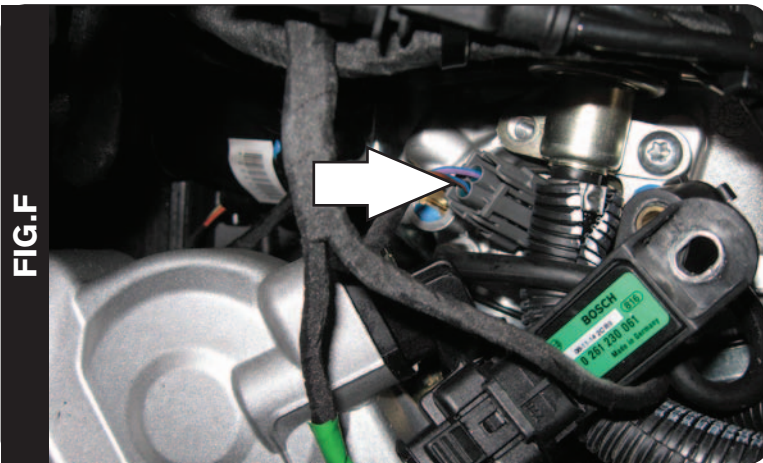




- 8 Using the supplied velcro secure the Juicebox Pro unit in place under the seat (Fig. D).
- 9 Route the Juicebox Pro harness down the left side of the vehicle and go towards the throttle bodies.



- 10 Remove the mounting bolt for the MAP sensor on the left side of the throttle bodies.  
*This allows access to the injector.*



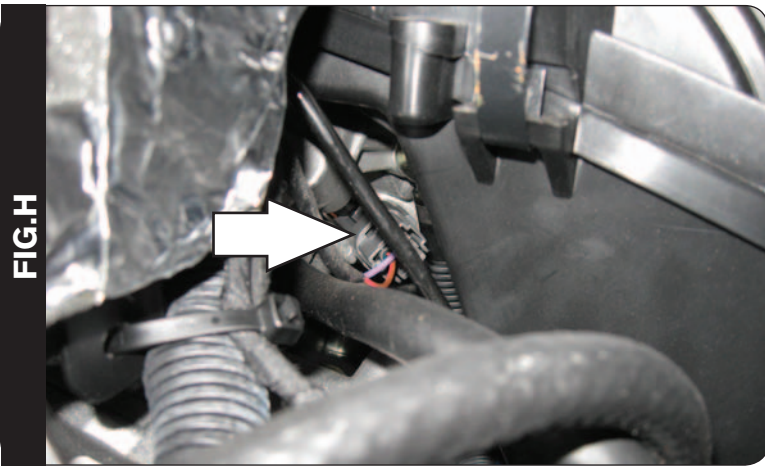
- 11 Unplug the stock wiring harness from the injector (Fig. F).

FIG.G



- 12 Plug the YELLOW colored wires from the Juicebox Pro in-line of the stock wiring harness and injector.

FIG.H

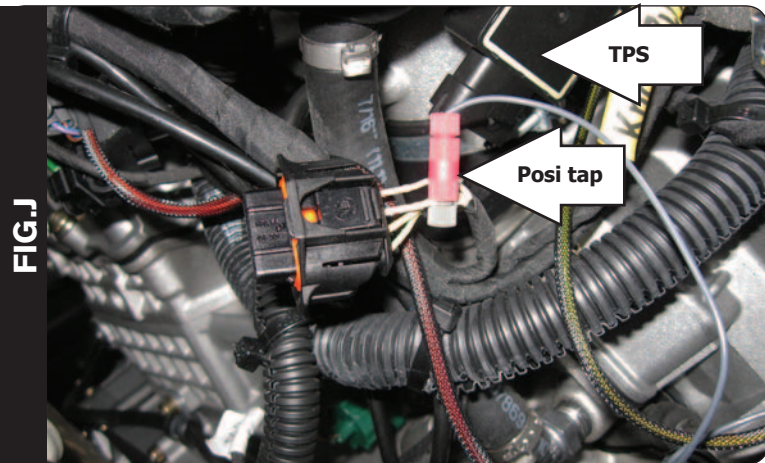


- 13 Unplug the stock wiring harness from the injector on the right hand side (Fig. H).

*This connection is located to the Right, Rear of the air box.*

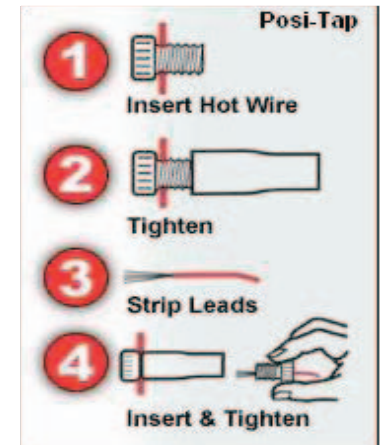
- 14 Plug the ORANGE colored wires of the Juicebox Pro in-line of the stock wiring harness and injector.

FIG.J

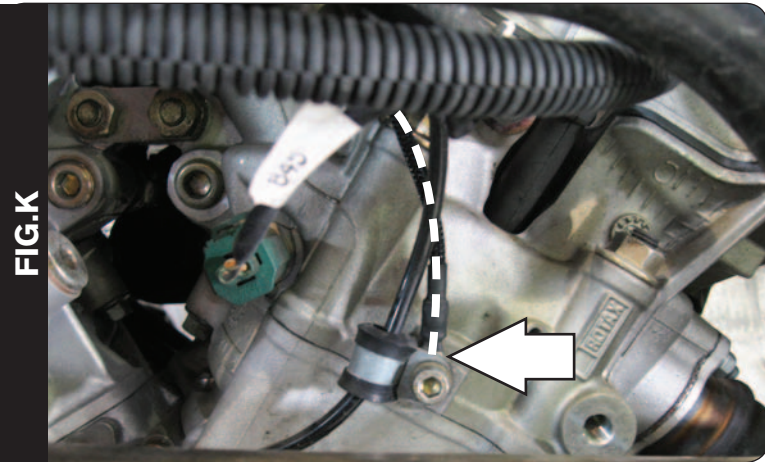


- 15 Locate the Throttle Position Sensor on the left side of the throttle bodies.
- 16 Use the supplied Posi-tap attach the GREY wire of the Juicebox Pro to the WHT/BRN wire of the TPS wiring harness.

*Figure J is shown with the TPS harness disconnected from the sensor. Make sure to reconnect the harness to the sensor.*

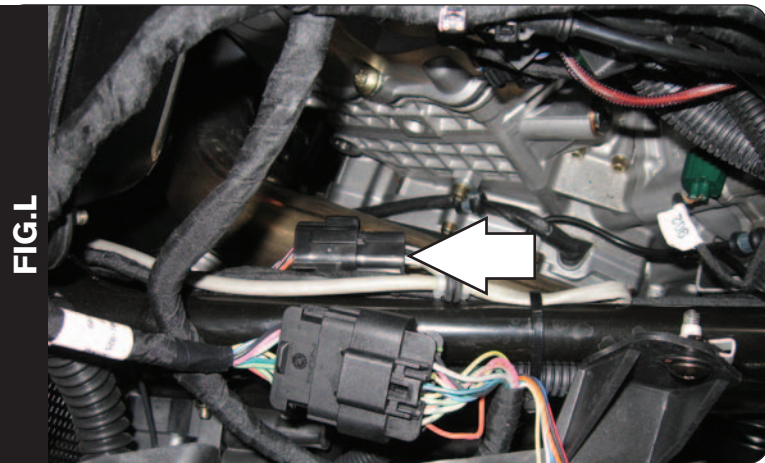






- 17 Attach the ground wire of the Juicebox Pro to the rear cylinder head on the left side (Fig. K).

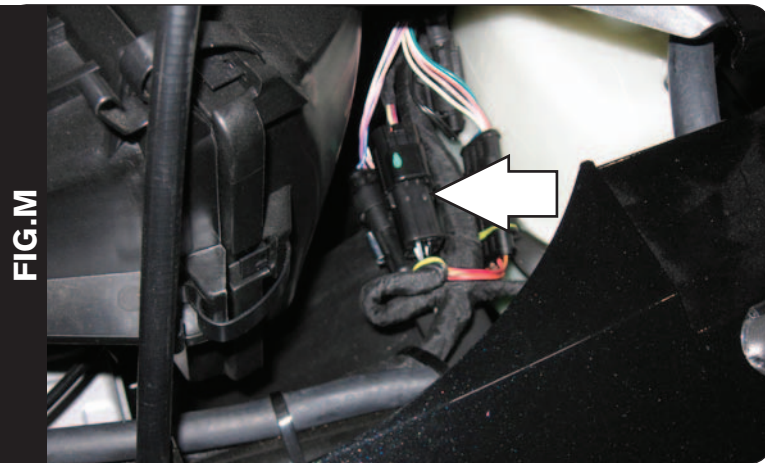
*Remove the stock bolt and insert bolt thru the eyelet of the Juicebox Pro ground wire and reinstall bolt into head.*



- 18 Unplug the stock wiring harness from the front O2 sensor (Fig. L).

*This connection is located on the left hand frame rail by the front cylinder*

- 19 Plug the 4 pin connector labeled FRONT in-line of the stock O2 sensor and wiring harness.



- 20 Unplug the stock wiring harness from the rear O2 sensor (Fig. M).

*This connection is located on the right side of the vehicle between the air box and the coolant reserve bottle.*

FIG.N



- 21 Plug the 4 pin connector labeled REAR in-line of the stock O2 sensor and wiring harness.

FIG.P

	0	2	5	10	15	20	40	60	80	100
500	0	0	0	0	0	0	0	0	0	0
750	0	0	0	0	0	0	0	0	0	0
1000	0	0	0	0	0	0	0	0	0	0
1250	0	0	0	0	0	0	0	9	11	11
1500	0	8	8	8	8	8	8	12	11	11
1750	0	8	8	8	8	8	8	2	5	11
2000	0	8	8	8	8	8	8	3	3	12
2250	0	8	8	8	8	8	8	1	2	5
2500	0	8	8	8	8	8	8	1	3	3
2750	0	8	8	8	8	8	8	0	1	4
3000	0	8	8	8	8	8	8	2	2	-7
3250	0	8	8	8	8	8	8	1	1	-4
3500	0	8	8	8	8	8	8	-3	0	-10
3750	0	8	8	8	8	8	8	0	-1	-13
4000	0	8	8	8	8	8	8	0	-1	-14
4250	0	8	8	8	8	8	8	0	-4	-13
4500	0	8	8	8	8	8	8	0	-3	-14
4750	0	8	8	8	8	8	8	1	-3	-10
5000	0	8	8	8	8	8	8	-2	-4	-10
5250	0	8	8	8	8	8	8	-4	-2	-6
5500	0	8	8	8	8	8	8	-6	-1	-8
5750	0	8	8	8	8	8	8	-4	-1	-4
6000	0	8	8	8	8	8	8	-6	-1	-5
6250	0	8	8	8	8	8	8	-6	-1	-5
6500	0	8	8	8	8	8	0	-6	-1	-2
6750	0	8	8	8	8	8	0	-7	-1	-1
7000	0	8	8	8	8	8	0	-3	-1	0
7250	0	8	8	8	8	8	0	-3	0	0
7500	0	8	8	8	8	8	-4	-1	0	1

The Juicebox Pro for this model controls the stock closed loop area. This area is represented by the highlighted cells shown in Figure P. The Juicebox Pro is designed to achieve a target AFR of 13.6:1. You must retain your stock O2 sensors.

It is not recommended to alter the values in the highlighted area unless instructed to do so by a Two Brothers technician.